

Product datasheet for **MR230475**

Arhgef3 (NM_001289686) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arhgef3 (NM_001289686) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Arhgef3
Synonyms:	1200004I24Rik; 9830169H03Rik; C76747; Xpln
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR230475 representing NM_001289686
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAATCAGTGCATTTACAGGGGAATGGAAGAGCACAAAGAAAGACCCAAGCGGCCGAGGCAGAACAAC
 TCTCCATGTTCCCTCTCCCAAAGCCTGGAATTCAGAGGGCGGAAACGAAAACAGAGTCCAGGATGA
 AGATGCTGTCAGCCTGTGACGTCTTGACATAAGTGAACCTAGTAACAAAAGGGTCAAACCCCTTTCCAGA
 GTCACATCGTAGCAAACCTCATTCCACCTGTGAAGACCACACATTAAAGCGCTTCAGCCAGACCTTGC
 AGCGGTCCATCAGCTTCCGCAGCGAGAGCCGCCCGACATCCTTGCCCCCGAGCTTGGTCCAGAAATGC
 CACCTCTCAAGCACAAGCGGAGAGACAGAACTGTGGAGTGAGACCTTCGATGTGTGTGTAATCAG
 GTGCTCACGGCCAAGGAGATCAAGAGACAGGAGCGATCTTTGAACTTTCTCAAGGTGAAGAAGACTTGA
 TAGAGGACTTGAAATTAGCAAAAAGGCCTACCACGACCCATGTGAACTCTCCATAATGACGGAACA
 GGAAGTGAATCAGATTTTGGGACCTGGACTCTTAATTCCTCTCCATGAAGAGCTCCTCAGTCAGCTT
 CGAGATGTTCCGAAACCGATGGCTCGACTGAGCACGTTGGTCCCATCCTCGTGGGCTGGCTGCCCTGTC
 TCAGCTCTACGACAGCTACTGCAGCAATCAAGTCGCGCCCAAAGCCCTGCTGGACCACAAAAGCAGGA
 CCACAGAGTGAGGACTTCTCCAGCGCTGTTAGAATCACCTTCAGTCGAAAACCTCGATCTCTGGAAT
 TTCCTTGATATCCCCGGAGCCGGCTAGTGAAGTATCCTCTGCTCCTTCGAGAAATCCTGAGGCATACAC
 CAAATGATAACCCAGACCAGCAGCACCTGGAAGAAGCTATAAACATCATCCAGGGAATTGTGGCAGAAAT
 CAACACCAAGACTGGGGAATCGGAATGCCGCTATTACAAAGAGCGGCTCCTTTACCTGGAAGAAGCCAG
 AAAGATTCTCTGATTGACAGCTCAAGGGTCTGTGTGTGTCATGGAGAGCTGAAAAATAACCGGGGTGTA
 AACTCCATGTTTTCTGTTCCAAGAAGTCTGGTGATCACCCGAGCTGCACTCACACGAGCAGCTSQG
 CTATCAGTTGTACCGACAGCCCATCCCTGTGAAGGACCTCACGCTGGAAGACCTGCAGGATGGAGAAGTG
 CGGCTGGTGGCTCCCTGCGCGGGCCTTCAGCAACAACGAGAGAGTTAAAAACTTCTTCAGAGTCAAGT
 TCAAAAATGGATCCCAAAGTCAAGCCACTCACTACAAGCCAACGACACCTTCAACAAACAGCAGTGGCT
 CAACTGTATCCGTCAAGCAAAAAGAACTGTTCTGTCTGCTGCCGGCCAGGCTGGCTTGGTACTCTGAG
 GGACTGGTCCAGGGTCCCGGCACTGAGAACAGGGAGCCACAGGGAGAAACAAAACCTTGGAGCAGTGGACC
 AATCGGACAGCGAGTCCGACTGCAGTATGGACACCAGTGGGTCAGCCTTGAGTGTGAGCGGATGGAAACA
 GACAGACGCTTCTGTGCAAACAGCAGGCCCGAGGAGAGTGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230475 representing NM_001289686
 Red=Cloning site Green=Tags(s)

MNQCIYRGMEEHKERPKRPRQNNFSMFPSKAWNFRGRKRKQSSQDEDAVSLCSLDISEPSNKRVKPLSR
 VTSANLIPPVKTTPLKRFSQLQRSISFRSESRPDILAPRAWSRNATSSSTKRRDSKLWSETFDVCVNQ
 VLTAKAIKRQEAIFELSQGEEDLIEDLKLAKKAYHDPMLKLSIMTEQELNQIFGTLDL IPLHEELLSQL
 RDVYKPDGSTEHVGPILVWLPCLSSYDYSYCSNQVAAKALLDHKKQDHRVQDFLQRCLESPFSRKLDLWN
 FLDIPRSRLVKYPLLLREILRHTPNDNPQHLLEEAINI IQGIVAEINTKTGESECRYKERRLLYLEEGQ
 KDLSIDSSRVLCCHGELKNNRGVKLHVFLFQEVLVITRAVTHNEQLCYQLYRQPIPVKDLTLEDLQDGEV
 RLGSLRGAFSNNERVKNFFRVFSKNGSQSQTSHLQANDTFNKQQLNCRQAKETVL SAAGQAGLLDSE
 GLVQPGTENREPQGETKLEQMDQSDSESDCSMDTSEVSLE CERMEQTDASCANSRPEESV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

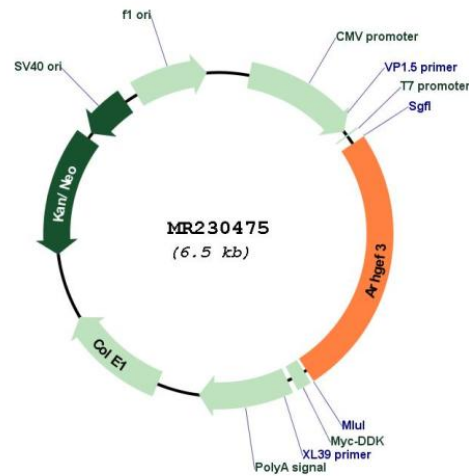
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_001289686
ORF Size:	1653 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_001289686.1 , NP_001276615.1
RefSeq Size:	3792 bp
RefSeq ORF:	1656 bp
Locus ID:	71704
UniProt ID:	Q91X46
Cytogenetics:	14 16.09 cM
MW:	63.5 kDa
Gene Summary:	Acts as guanine nucleotide exchange factor (GEF) for RhoA and RhoB GTPases. [UniProtKB/Swiss-Prot Function]